USB Multi-I/O Test & Simulation for MIL-STD-1553/ARINC 429/ARINC 717



Product Brief

Models: BU-67X02/3U, BU-67211U



Reliable and easy-to-use, DDC's USB Multi-I/O Test and Simulation Hardware series provides you with the right solution for interfacing to MIL-STD-1553, ARINC 429, ARINC 717, CANbus, Serial I/O, and/or Discrete I/O interfaces.

Features:	BU-67211U	BU-67X02U	BU-67103U	Benefits:
Rack Mountable Option	~			Simplify Form Form
Standard Twinax MIL-STD-1553 Rugged Connectors on Hardware	~	~	~	USB 2.0 interfac USB Ports are P
USB Bus Powered		~	~	Variety of Device
Extended Temperature Range		~		- Ruggedized
Multi-Function BC+Multi-RT+MT per Ch	~	~		- Powerful Test
SF = BC/MT or Multi-RT/MT per Ch MF = BC + Multi-R/T + MT per Ch	MF (2 Ch)	SF (2 Ch) MF (1 Ch)	SF (2 Ch)	Standard Twind
1553/429 Bus Playback from Stored Monitor File	~	~	~	Hookup Save Time and
Digital & Avionics (+35V) Discrete I/O and Triggering	~			- Common Sot
Real Time Intermessage Event/Data Modification	~	~		Embedded F Less Program
Error Injection	~	~		- Program in N
Variable 1553 Voltage	~			Source Code
Advanced 1553 Error Sampling at 50 nS	~	~	~	
Programmable Direct or Transformer 1553 Coupling	~			Applications:
Programmable Tx/Rx ARINC 429 Ch.	*			New Product D
Programmable Tx/Rx ARINC 717 Ch.	*			System Troubles
CANbus 2.0	~			Portable Testers
Programmable RS-232/422/485	~			Flight Line Diag
IRIG-B Input	~	~	~	Flight Testing
IRIG-B Output	~			Software Devel

- Factor Selection Process with a simple ice, Enabling Connection Anywhere Present.
- ices
 - **Compact Portable Units**
 - st and Simulation Units
- ax Connectors for Quick 1553 Bus
- d Reduce Costs:
 - oftware API for both DDC Test and Products for Rapid Prototyping with nming Time
 - Vinutes with Automated Application e Generation
- Development
- shooting
- rs
- gnostics
- elopment
- Systems Integration Labs
- Simulators
- Production Test Stands
- Automated Test Applications

For more information: www.ddc-web.com/USB

Technical Data

- 1553 Bus Monitor (MT)
 - IRIG-106 Chapter 10 Compatibility
 - Filter Based on RT Address, T/R bit, Sub-Address
 - Advanced Bit Level Error Detection to Isolate Bus Failures
 - DMA Engine for Ultra Low CPU Utilization
- 1553 Remote Terminal (RT)
 - Emulate up to 31 RT Addresses Simultaneously
 - Multiple Buffering Techniques
 - Programmable Command Illegalization
 - Programmable Busy by Sub-address

Ordering Information

- 1553 Bus Controller (BC)
 - Streaming and Minor/Major Frame Scheduling of Messages
 - High and Low Priority Asynchronous Message Insertion
 - Modify Messages or Data while BC is running
- ARINC 429
 - High/Low Speed 429 Operation
 - FIFO or Mailbox Reception
 - FIFO, FIFO Block, or Scheduled Rate Transmission
 - Asynchronous Message Insertion
 - Label/SDI Filtering

	Model Number	1553	429	429 Ch.		Digital Discrete I/O	Avionics Discrete I/O	Serial I/O	CANbus	Temperature Range
wodel Number	Ch.	Rx	Tx	Ch.						
	BU-67102U000-CA0	—	4	2	_	8	_	—	—	-40°C to +71°C
	BU-67102U100-CA0	1 SF	0	0	_	8	_	—	—	
	BU-67102U200-CA0	2 SF	4	2	—	8	—	_	—	
	BU-67202U100-CA0	1 MF	0	0	—	8	—	_	—	
FORM	BU-67103U000-JL0	—	4	2	—	8	—	_	—	0°C to +55°C
	BU-67103U100-JL0	1 SF	0	0	—	8	—	_	—	
	BU-67103U200-JL0	2 SF	4	2	_	8	—	—	—	
The state	BU-67211U000R-JL0	_	8		2	2	2	0	2	-
	BU-67211U200R-JL0	2 MF	8		2	2	2	4	2	

Notes: All USBs include IRIG-B input, BU-67211Ux also includes IRIG-B output. SF = BC or Multi-RT with concurrent Bus Monitor per 1553 channel MF = BC and Multi-RT with concurrent Bus Monitor per 1553 channel

- Included Software:
- 1553 and 429 Software Development Kits (SDKs)
- Windows XP/Vista/7 and Linux

Contact factory for latest software compatibility with each model.

Included Accessories: • USB Cable

For all versions:

- AC Power Adapter
- D-Connectors and Shells

Optional Accessories:

- For the X02U version only: Mounting Bracket - "Ú" bracket with mounting holes - P/N 5507-5606-0010

Optional Software:

BustraCEr...

Data Bus Analyzer and Monitor Software

- Generate or monitor live MIL-STD-1553 data without writing any code
- Saves time and reduces development costs Program in minutes with one-click ANSI 'C'
- application source code generation Rapid creation and setup of custom applications

Model: BU-69066S0-XX0

dataSIMS

TIGE



Avionics Data Bus Test and Analysis Software

- Accelerates development and deployment Eliminates cost of learning and maintaining separate software programs
- Easy-to-use and customize
- Supports all data protocols and I/O formats

Model: BU-69414DS-64VM



The information in this Product Brief is believed to be accurate; however, no responsibility is assumed by Data Device Corporation for its use, and no license or rights are granted by implication or otherwise in connection therewith. Specifications are subject to change without notice.

For ordering assistance and technical support, Call: 1-800-DDC-5757 E-mail: service@ddc-web.com Visit: www.ddc-web.com

Headquarters, N.Y., U.S.A. - Tel: (631) 567-5600, Fax: (631) 567-7358 United Kingdom - Tel: +44-(0)1635-811140, Fax: +44-(0)1635-32264 France - Tel: +33-(0)1-41-16-3424, Fax: +33-(0)1-41-16-3425 Germany - Tel: +49-(0)89-1500-12-11, Fax:+49(0)89-1500 12-22 Japan - Tel: +81-(0)3-3814-7688, Fax: +81-(0)3-3814-7689 Asia - Tel: +65-6489-4801

Simple interface for quick startup and

Commercial Avionics Utilities

LabVIEW[®] Support Package

easy programming Access real-time 1553/429 data using LabVIEW

X02U version also includes:

1 Cable Tie Screw and Washer

• 5 Cable Ties

- Easily integrate data from different types of instruments and sensors
- Create custom user interface from scratch or by modifying samples
- Model: BU-69093S0-XX0

Data Bus Analyzer and Data Loader Software

- Graphical ARINC 429 data bus analysis and simulation
- Advanced filtering, message scheduling, and triggering
- Graphical ARINC 615 data loader Software interface to load data to and from airborne computers
- Model: DD-42999S0-XX0

